

## Patent Abstracts of Japan

PUBLICATION NUMBER : 10246813  
 PUBLICATION DATE : 14-09-98

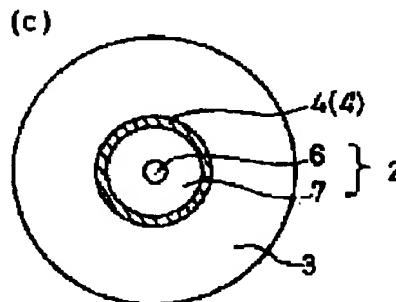
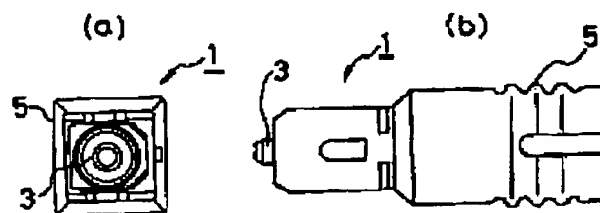
APPLICATION DATE : 06-03-97  
 APPLICATION NUMBER : 09051971

APPLICANT : NIPPON TELEGR & TELEPH CORP  
 <NTT>;

INVENTOR : MUTA KENICHI;

INT.CL. : G02B 6/00

TITLE : OPTICAL FIXED ATTENUATOR



ABSTRACT : PROBLEM TO BE SOLVED: To stabilize an attenuation quantity by absorbing a radiation mode propagated in a ferrule incorporated in a connector housing.

SOLUTION: An optical fiber 2 with an attenuating function is adhered to the ferrule 3 with an adhesive layer 4, inserted into the connector housing 5, and held in the connector housing 5 across the ferrule 3 to obtain the optical fixed attenuator 1, which has a light absorbing agent added to the adhesive layer 4. This light absorbing agent is preferably an organic metal compound. Specially, this agent preferably contains transition metal ions of  $\geq 1$  kind selected out of cobalt, chromium, copper, iron, nickel, mangan, and vanadium. Consequently, the radiation mode entering the adhesive layer 4 can be absorbed, so mode coupling between this radiation mode and a propagation mode propagated in a core 6 can be prevented. Therefore, the attenuation quantity can be stabilized.

COPYRIGHT: (C)1998,JPO